ARTÍCULO PUBLICADO

Journal: Optics Express

Paper: Single-longitudinal mode laser structure based on a very narrow filtering technique

AUTHORS: L. Rodríguez-Cobo, M.A. Quintela; S. Rota-Rodrigo, M. Lopez-Amo, J.M. López-Higuera

Abstract: A narrow filtering technique based on the spectral overlapping ot two uniform FBGs and applied to obtain a Single Longitudinal Mode (SLM) laser is proposed and demostrated in the work. The two FBGs are spectrally detuned to reduce their coinciden reflection response narrowing the equivalent filter bandwidth. A proof-of-concept linear laser has been built and tested exhibiting SLM operation with temperature and strain variations.